

# Neomangiferin Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

## [ Product Information ]

**Name:** Neomangiferin

**Catalog No.:** CFN98122

**Cas No.:** 64809-67-2

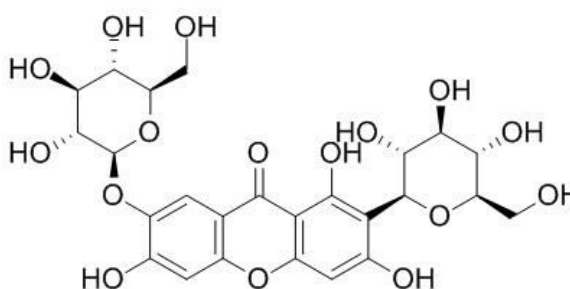
**Purity:** > 98%

**M.F:** C<sub>25</sub>H<sub>28</sub>O<sub>16</sub>

**M.W:** 584.48

**Physical Description:** Powder

**Synonyms:** O-6-Deoxy-a-L-mannopyranosyl-(1(r)2)-O-[O-b-D-glucopyranosyl-(1(r)6)-O-[b-D-xylopyranosyl-(1(r)2)]-b-D-glucopyranosyl-(1(r)3)]-(3b,16b,23R)-16,23:16,30-diepoxy-20-hydroxydammar-24-en-3-yl-a-L-arabinopyranoside.



## [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Intermediates & Fine Chemicals;
7. Ingredient in supplements, beverages;
8. Others.

## **[ Source ]**

The leaves of *Mangifera indica*.

## **[ Biological Activity or Inhibitors]**

Neomangiferin has beneficial effects on high fat diet-induced nonalcoholic fatty liver disease in rats.<sup>[1]</sup>

Neomangiferin modulates the Th17/Treg balance and ameliorates colitis in mice.<sup>[2]</sup>

## **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

## **[ HPLC Method ]<sup>[3]</sup>**

Mobile phase: Acetonitrile- 0.033% Phosphoric acid, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 310 nm.

## **[ Storage ]**

2-8°C, Protected from air and light, refrigerate or freeze.

## **[ References ]**

[1] Zhou C, Zhou J, Han N, *et al. Int. Immunopharmacol.*, 2015, 25(1):218-28.

[2] Lim S M, Kang G D, Jeong J J, *et al. Phytomedicine International Journal of Phytotherapy & Phytopharmacology*, 2016, 23(2):131-40.

[3] Fang Q B, Qian K M, Pan Y, *et al. Research & Practice on Chinese Medicines*, 2010(4):67-9.

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